

**STATE OF VERMONT
PUBLIC SERVICE BOARD**

Petition of New England Power Company d/b/a)
National Grid pursuant to 30 V.S.A. § 248 for)
a Certificate of Public Good authorizing the) Docket No. _____
construction of a 34.5 kV transmission line in)
the town of Waterford, Vermont and the removal)
of the existing 34.5 kV 3315 transmission line)
in Waterford and Barnet, Vermont)

PETITION FOR CERTIFICATE OF PUBLIC GOOD
PURSUANT TO 30 V.S.A. § 248

By this Petition, New England Power Company d/b/a National Grid (referred to as
“NEP” or “Petitioner”) represents as follows:

1. NEP is a duly organized public service company with a principal place of business at 40
Sylvan Road, Waltham, Massachusetts,.
2. NEP is incorporated in the Commonwealth of Massachusetts and is qualified to transact
business in Vermont as a foreign corporation and as such is subject to the Public Service
Board’s jurisdiction pursuant to Section 203 of Title 30. NEP engages primarily in the
business of wholesale transmission of electricity. All of NEP’s outstanding common
shares are owned by National Grid USA, a Delaware corporation.
3. NEP proposes to reconstruct its existing 34.5 kV 3315 transmission line (the “3315
Line”), which includes removing all existing 3315 Line structures and conductors in
Waterford and Barnet, Vermont and to construct a new tap line to the Waterford
Substation in Waterford, Vermont (the “Project”).
4. The planned Project includes the following components:

- Removing approximately 5.2 miles of the 3315 Line and structures on the Vermont side of the Connecticut River, and creating a new 0.8-mile Waterford Substation tap line (“New Tap Line”) that connects from the Green Mountain Power (“GMP”) Waterford Substation in Waterford, Vermont to a planned relocated 3315 Line in New Hampshire. Due to geographic and environmental constraints in the right-of-way which hinder access, NEP will remove structures by cutting structures at ground surface after it has removed conductor material.
- Replacing eight (8) existing overhead structures along Lower Waterford Road, two (2) existing structures within agricultural land between Lower Waterford Road and the Connecticut River, and one (1) existing structure east of the GMP Waterford substation, in order to carry the existing distribution line as well as the New Tap Line, causing these replacement structures to be on average about 23 feet taller than the existing structures.
- Installing two (2) new weathered steel H-frame structures on the Vermont side of the Project - one (1) just above the bank of the Connecticut river, and one (1) 800 feet from the bank of the Connecticut River- with approximate heights of 65 to 75 feet above ground, with caisson foundations
- Limited tree limb trimming where the proposed New Tap Line leaves the Lower Waterford Road corridor and turns southeast to the Connecticut River. Additional, limited clearing will be required within the existing right-of-way adjacent to the existing Waterford Substation as well as along the Connecticut River riverbank.
- The use of an approximately 1.5-acre existing log landing and storage area, adjacent to the existing GMP Waterford substation, for temporary materials storage and construction staging.
- Staging and laydown of materials and equipment will be located within the existing 3315 Line right-of-way and at a location on the Bullock Farm located at 1794 Lower Waterford Road.
- NEP will access the existing structures for removal through the right-of-way directly off of Barnet and Waterford town roads, or off of access paths through private lands of which NEP has obtained access rights; where access through sensitive natural resources, such as wetlands or rare, threatened and endangered species, is unavoidable, NEP would place construction mats for equipment travel and staging.
- Improving existing off-right-of-way access routes, including clearing vegetation and installing water bars where necessary.

5. NEP needs the Project because the infrastructure is nearing the end of its useful life and its current remote location makes timely repair and maintenance difficult. The upgrades will reduce the likelihood of an in-service failure, which could lead to long-term interruptions of the transmission system, as well as significant customer outages.
6. The estimated total cost of the proposed Project is \$4,300,000.00.
7. The installation of the New Tap Line and 3315 Line in New Hampshire is scheduled to be completed by December, 2016. The removal of the existing 3315 Line will be completed by December, 2017.
8. The proposed Project will promote the general good of the State of Vermont, is needed to provide reliable service to the area of need, and satisfies the Section 248 criteria.
9. The Petitioner identified the adjoining landowners by using the certified grand list as it existed no more than sixty days prior to the date the petition was filed and provided notice to the these landowners of the Project on the date of this filing as required under Board Rule 5.402(B). The grand list for the Town of Waterford was certified on January 31, 2014, and the Town of Barnet was certified on July 28, 2014.
10. In support of this Petition, NEP submits the following prefiled testimony and exhibits:

David Arthur (NEP)

Describes the Project and addresses the Project's effect with respect to: § 248(b)(1) (orderly development of the region); § 248(b)(4) (economic impacts); § 248(b)(5) (aesthetics) (above ground historic sites); § 248(b)(5) (public safety); § 248(b)(5) / 10 V.S.A. § 6068(a)(5) (traffic); § 248(b)(5) (greenhouse gases) (use of natural resources); § 248(b)(5) / 10 V.S.A. § 6068(a)(6) (educational services); § 248(b)(5) / 10 V.S.A. § 6068(a)(7) (municipal services); § 248(b)(5) / 10

V.S.A. § 6068(a)(9)(K) (public investments); § 248(b)(7) (compliance with the State's electric-energy plan); and § 248(b)(10) (planned transmission facilities); and §248(b)(5) (shoreline).

Anthony Blanco (NEP)

Addresses the Project need (Section 248(b)(2)), as well as the Project's potential impact on system stability and reliability (Section 248(b)(3)) and its consistency with integrated resource planning principles (Section 248(b)(6)).

Adam Crary (VHB)

Addresses the Project's potential impacts on environmental resources (Section 248(b)(5)), including certain incorporated Act 250 criteria.

Suzanne G. Cherau (PAL)

Addresses the Project's potential impacts on archaeological sites (Section 248(b)(5)).

11. The Project meets all of the criteria established by 30 V.S.A. § 248, including the environmental criteria incorporated from Title 10 of the Vermont Statutes Annotated pursuant to 30 V.S.A. § 248(b)(5), and will promote the general good of the state.

Request for Relief

WHEREFORE, the Petitioner respectfully requests this Board to:

- A. Hold a prehearing conference as expeditiously as possible to establish a schedule for testimony and hearings.
- B. Hold hearings as the Board determines are necessary.

C. Find that the Project as described in this Petition and the prefiled testimony, will promote the general good of the State of Vermont and issue a Certificate of Public Good to that effect.

D. Take such other actions as may be required for the expeditious review of this application.

DATED at Montpelier, Vermont this 30th day of January, 2015.

NEW ENGLAND POWER COMPANY
D/B/A NATIONAL GRID

By: _____

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